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The **FEMP MONTHLY UPDATE** is prepared expressly for the Department of Energy's Office of Federal Energy Management Programs (FEMP). The purpose of the **UPDATE** is to provide FEMP management staff with timely information on topics relevant to the program. This includes the status of pending Federal and state legislation and summaries of public and private sector energy-related activities. The **FEMP MONTHLY UPDATE** is prepared for FEMP by Energetics, Incorporated, (202) 479-2748.

DOE BULLETIN BOARD

Short Term Energy Outlook, Energy Information Administration (EIA), June 2003.

Due to the low level of underground storage, natural gas prices remain at above average prices of \$6 per million btu. This year, above average prices and strong gas-directed drilling efforts are necessary to recover minimum adequate levels of gas in storage. Natural gas prices are projected to remain between \$5.50 and \$6.00 per million btu for the rest of 2003.

Crude oil prices have remained in the upper range of the OPEC target range of \$22-\$28 per barrel. Post-war looting in Iraq and a terrorist attack in Saudi Arabia has inhibited full production. World oil demand is projected to grow by 1 million barrels per day in 2003, with the United States leading one-third of the demand.

Electricity demand is expected to increase by 1.7 percent this year and into 2004, due to a strong economy. Hydroelectric generation is down in the Pacific Northwest, yet is rising in other areas of the United States so that an 11 percent increase is expected for 2003. Nuclear generation remains stable.

Motor gasoline prices continue to decline with the current price at \$1.46. California is recovering the price difference due to the methyl tertiary butyl ether (MTBE) phase-out and unplanned refinery closing, but prices are still higher than the rest of the nation by 26 cents per gallon.

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WHAT'S NEW?

EPA Recognizes Buildings for Superior Energy Performance, EnergyStar®, May 2003. During the past two years, *EnergyStar®* has recognized 1,075 buildings for their energy performance. Of those buildings, 161 belonged to Federal, state and local governments. For more information, refer to the *EnergyStar®*, website at www.energystar.gov, or call 1-888-STAR-YES.

CONGRESSIONAL ACTIVITIES

CONGRESSIONAL SCHEDULE

- No new hearings, mark ups, or votes on bills of interest have been scheduled.

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STATUS OF PENDING APPROPRIATION BILLS OF INTEREST TO FEMP

- Refer to www.eere.energy.gov/femp/resources/initiatives.html – Legislative Initiatives

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HOUSE

H.R 2559 – Fiscal Year 2004 Appropriations for the Military Construction, Family Housing, and Base Realignment

Military Construction

- Army - \$1.533.660 billion for acquisition, construction, installation, and equipment of temporary or permanent public works, military installations, facilities, and real property, to remain available until September 30, 2008 (of this amount \$122.710 million shall be available for study, planning, design, architect and engineer services, and host nation support).
- Navy - \$1.211.077 billion for acquisition, construction, installation, and equipment of temporary or permanent public works, naval installations, facilities, and real property, to remain available until September 30, 2008 (of this amount \$65,612 million shall be available for study, planning, design, architect and engineer services.)
- Air-Force - \$896.136 million for acquisition, construction, installation, and equipment of temporary or permanent public works, military installations, facilities, and real property, to remain available until September 30, 2008 (of this amount \$80.543 million shall be available for study,

DID YOU KNOW?

Solar-Powered Cars to Race Route 66.

DOE will sponsor the American Solar Challenge on July 13-23 from Chicago to California along route 66. This 40-car race will advance renewable energy and electric vehicle technologies. The cars are powered by electricity that is generated by sunlight using solar or photovoltaic cells. Secretary Abraham said, "The American Solar Challenge demonstrates the potential of renewable energy. In the future, with the Department of Energy's research efforts into promising technologies, renewable energy can contribute to our nation's energy supplies." For more information refer to the DOE's website at sbir.er.doe.gov/Science_News/feature_articles_2001/july/Solar_Car/PF-The_Great_Solar_Car_Race.htm

The Government Printing Office (GPO) and the Office of Management and Budget (OMB) recently announced new printing procedures.

The new procedures permit Federal agencies to competitively choose their own printers. By October 1, 2003, GPO will develop a demonstration print procurement contract for use by Federal agencies. The contract will feature an electronic web-based ordering system that will allow Federal customers to deal directly with private printers. This new procedure will decrease the time and expense of government printing. For additional information, refer to the GPO website at www.gpo.gov/public-affairs/news/03news27.pdf or Government Executive Magazine at www.govexec.com/dailyfed/0603/060603b1.htm

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planning, design, architect and engineer services.)

- Defense-Wide - \$813.613 million for acquisition, construction, installation, and equipment of temporary or permanent public works, installations, facilities, and real property, to remain available until September 30, 2008 (of this amount \$63.884 million shall be available for study, planning, design, architect and engineer services.)
- Army National Guard - \$208.033 million for construction, acquisition, expansion, rehabilitation, and conversion of facilities, to remain available until September 30, 2008.
- Air National Guard - \$77.105 million for construction, acquisition, expansion, rehabilitation, and conversion of facilities, to remain available until September 30, 2008.
- Army Reserve - \$84.569 million for construction, acquisition, expansion, rehabilitation, and conversion of facilities, to remain available until September 30, 2008.
- Naval Reserve - \$38.992 million for construction, acquisition, expansion, rehabilitation, and conversion of facilities, to remain available until September 30, 2008.
- Air Force Reserve - \$56.212 million for construction, acquisition, expansion, rehabilitation, and conversion of facilities, to remain available until September 30, 2008.

Family Housing Construction

- Family Housing Construction, Army - \$409.191 million for construction, including acquisition, replacement, addition, expansion, extension and alteration, to remain available until September 30, 2008.
- Family Housing Operations and Maintenance, Army - \$1.043.026 billion for operation and maintenance, including debt payment, leasing, minor construction, principal and interest charges, and insurance premiums.
- Family Housing Construction, Navy and Marine Corp - \$184.193 million for construction, including acquisition, replacement, addition, expansion, extension and alteration to remain available until September 30, 2008.
- Family Housing Operation and Maintenance, Navy and Marine Corp - \$852.778 million including debt payment, leasing, minor construction, principal and interest charges, and insurance premiums.

- Family Housing Construction, Air Force - \$657.065 million construction, including acquisition, replacement, addition, expansion, extension and alteration, to remain available until September 30, 2008.
 - Family Housing Operation and Maintenance, Air Force - \$826.074 million including debt payment, leasing, minor construction, principal and interest charges, and insurance premiums.
 - Family Housing Construction, Defense-Wide - \$350 million for construction, including acquisition, replacement, addition, expansion, extension and alteration, to remain available until September 30, 2008.
 - Family Housing Operation and Maintenance, Defense-Wide - \$49.440 million for operation and maintenance, leasing, and minor construction.
 - Department of Defense Family Housing Improvement Fund - \$300 million, to remain available until expended.
- *H.R.2555 – Fiscal Year 2004 Appropriations for the Department of Homeland Security*

United States Coast Guard

- Acquisitions, Construction, and Improvements – Unspecified funding level for acquisitions, construction, renovation, and improvement of aids to navigation, shore facilities, vessels, and aircraft, including equipment

United States Secret Service

- Acquisitions, Construction, Improvements, and Related Expenses - \$3.579 million for construction, repair, alteration, and improvement of facilities

Sec. 519 None of the funds appropriated in this *Act* may be used for expenses of any construction, repair, alteration, and acquisition project for which a prospectus, if required by the *Public Buildings Act of 1959*, has not been approved, except that necessary funds may be expended for each project for required expenses for the development of a proposed prospectus.

Note: In the Administration’s “Statement of Administration Policy,” the Office of Management and Budget states the following with respect to the new Department of Homeland Security’s Headquarters facility:

The Committee substantially reduced departmental operations and did not fund the headquarters facility project. This funding is required to meet the new Department’s facility needs. The Administration believes a strong headquarters operation is essential to the coordination and management oversight of the new department and its components, especially as it is taking root. The reduction would inhibit this ability.

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SENATE

On May 27, 2003, 30 Democratic Senators sent a letter to Secretary Abraham complimenting him for his efforts to stabilize the natural gas market. The letter includes the following remarks of interest:

Energy efficiency and conservation, as well as fuel switching, are more likely to make a difference in natural gas markets this summer and next winter. Analysis of the successful efforts of California to reduce electricity consumption in 2001 demonstrated that efficiency and conservation were the fastest and least costly solutions available. We urge you to cast a wider net for recommendations on natural gas including meeting with Governors, state and federal regulators, industrial and commercial gas consumers, electric utilities and independent generators, and experts in efficiency and conservation.

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NEW LEGISLATIVE INITIATIVES OF INTEREST TO FEMP

- See [Attachment B](#) – New Legislation of Interest to FEMP

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HEARINGS OF INTEREST OF FEMP

Congress will be on the Fourth of July recess for the week of June 30.

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FEDERAL AGENCY **ACTIVITIES**

DEPARTMENT OF DEFENSE (DOD)

Sustainable Development Policy On June 9, the Department of Navy, Naval Facilities Engineering Command (NAVFAC) issued Instruction 9830.1 to reduce the total cost of ownership of shore facilities by implementing sustainable development concepts. The new policy directs the Navy to do the following:

- Reduce the life-cycle cost of shore facilities
- Use United States Green Building Council's Leadership in Energy and Environmental Design standard
- Reduce the total cost of ownership through sustainable development of Naval shore facilities

The NAVFAC policy, which is effective immediately, shall apply to all construction, renovation, and repair projects costing over \$750,000.

For further information, refer to the NAVFAC website at www.navfac.navy.mil/doclib/files/cheinst271223109.pdf

Public Meeting to discuss potential deviations to Federal Acquisition Regulations (FAR) Part 31 (Contract Cost Principles and Procedures) for DOD Utilities Privatization. On July 21 (exact

location to be included in a *Federal Register* announcement), the Department will conduct a meeting to discuss the most economical measures for upgrading military utility systems through the agency's privatization process.

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DEPARTMENT OF ENERGY (DOE)

Deputy Secretary of Energy McSlarrow Praises Hawaii's Energy and Weatherization Programs

DOE will allocate \$326,000 for Hawaii's State Energy Program and \$200,000 for the Weather Assistance Program for fiscal year 2003 - 2004. The programs seek to develop alternate sources of energy to include wind and solar. For more information contact Chris Kielich at 202-586-5806 Release No. PR-03-115.

EPA, HUD and DOE Sign Joint Partnership to Promote ENERGY STAR® in HUD Housing On June 17, EPA Administrator Christie Whitman, HUD Secretary Mel Martinez, and DOE Assistant Secretary David Garman, signed a partnership agreement to promote ENERGY STAR® throughout HUD's affordable housing program. Key elements of the agreement include the following:

- DOE, HUD, and EPA will work together to promote the purchase of **ENERGY STAR®** appliances
- The agencies will promote the construction of new **ENERGY STAR®** homes through HUD's affordable housing program
- The agencies will help local housing authorities purchase **ENERGY STAR®** products and implement strategies for new housing financed through HUD's HOPE VI program

Upon signing the agreement, Administrator Whitman said, "EPA's **ENERGY STAR®** program provides government agencies, businesses, and consumers with the opportunity to buy energy efficient products that conserve energy, save money and protect the environment." For more information on the joint partnership, refer to the EPA web site at

yosemite.epa.gov/opa/admpress.nsf/b1ab9f485b098972852562e7004dc686/35e838c44eb2d5f385256c3700750a28?OpenDocument

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ENVIRONMENTAL PROTECTION AGENCY (EPA)

EPA Administrator Whitman Accepts Green Building Award for EPA Chelmsford Laboratory

EPA received the Gold Certification rating from the United States Green Building Council for Chelmsford Laboratories in Massachusetts. This is the first New England laboratory to receive the certification from the Council's Leadership in Energy and Environmental Design rating system. The laboratory received the recognition for the use of innovative water testing methods that are expected to lead to the collection of accurate information on pollution at public beaches. For more information refer to the U.S. Green Building Council website at www.usgbc.org/News/pressreleases_details.asp?ID=314.

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FEDERAL ENERGY REGULATORY COMMISSION (FERC)

In a press release issued on June 12, **FERC Chairman Pat Wood responded to testimony given by Federal Reserve Board Chairman Alan Greenspan at a House Committee on Energy and Natural Gas hearing, which was held on June 10 (see *INSIGHTS* June 16).** Chairman Wood commended Mr. Greenspan for "highlighting concerns about the cost and supply of natural gas in this country. He is to be applauded for pointing out the potential to increase supplies quickly through imports of liquefied natural gas (LNG)." FERC initiatives designed to ensure an ample, affordable gas supply include expediting

pipeline approvals and providing a financial incentive for LNG terminal development. The commission has decreased the time needed for approval of new pipelines from approximately 18 months to nine months and exempted LNG terminals from FERC's open-access requirements. These initiatives have stimulated development of LNG facilities in the U.S. According to Mr. Wood, high priorities for the commission include "faster consideration of requests to build new pipelines, sensitivity to the urgent need for more imports, and a focus on increased storage requirements," while considering landowner and environmental matters.

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WHITE HOUSE

A General Service Administration wind power project recently received a White House award for outstanding Federal efforts to reduce dependence on fossil fuel and provide clean reliable electricity. For more information contact Viki Reath at 202-501-1231 or visit www.gsa.gov or www.prnewswire.com/news.

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OFFICE OF MANAGEMENT AND BUDGET NOMINATIONS (OMB)

The Office of Management and Budget (OMB) designated 49 new Metropolitan Statistical Areas for a total of 370. The classification provides nationally consistent definitions for collecting, tabulating, and publishing Federal statistics for a set of geographic areas. A total of 565 "Micropolitan Statistical Areas" and 116 "Combined Statistical Areas" have also been designated by OMB. For more information on, refer to the OMB website at www.whitehouse.gov/omb -- go to "Statistical Programs and Standards"

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STATE AND LOCAL GOVERNMENT ACTIVITIES

ATLANTA REGION

► *General State Activities*

An Energy Information Administration (EIA) report revealed that Kentucky, for the second consecutive year, has the lowest industrial, commercial, and residential electric rates in the country. The study, which measured electricity cost for all states by revenue per k, showed that Kentucky's cost was 3.04 cents per kWh. The national average is 5.04 cents per kWh. Wyoming has the second-lowest electric rates at 3.43 cents per kWh, followed by Utah at 3.53 cents per kWh, Idaho at 3.71 cents per kWh, and West Virginia at 3.74 cents per kWh. The low electric rates are due, in part, to the state's large coal supplies and the fact that the state does not incur transportation costs for importing electricity. Kentucky avoided investment in nuclear power as well, which tends to be more expensive to produce. (Source: *Transmission & Distribution World*, June 10, 2003)

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BOSTON REGION

No new information of interest to report.

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CHICAGO REGION

► *General State Activities*

The Public Utilities Commission of Ohio (PUCO) released a report stating that Ohio's experience with deregulation of electricity, invoked on January 1, 2001, is among the best in the country.

PUCO Chairman Alan Schriber said "Of the twenty-four states in the United States that have adopted electric choice, Ohio's experience has been among the best... While it is difficult to argue that electric choice has been pervasive anywhere, under the circumstances, Ohio's program has so far been a success." The report reveals that aggregation of electric purchases is the key to success for the state's electric choice program. Almost 93 percent of residential customer switching, 88 percent of commercial customer switching, and nearly 20 percent of industrial customer switching is the result of aggregation programs implemented in 150 municipalities across the state. Chairman Schriber said, "The makings of a vital retail market are in place -- a commitment to nurture the development of retail electric choice; statutes providing the PUCO with the administrative powers to correct the course if necessary; and a vote of confidence from Ohio's lawmakers... We will continue to observe and analyze trends in Ohio, the surrounding region, and the nation to facilitate the development of a competitive electric market in Ohio." To view the report entitled *The Ohio Retail Electric Choice Programs Report of Market Activity 2001-2002*, visit www.PUCO.ohio.gov. (Source: *PR Newswire*, May 28, 2003)

► *Status of Utility-Related Activities*

Investors in Iowa will build an underground compressed air energy storage (CAES) project to be powered in part, by energy derived from a 100 MW wind farm. The CAES will store compressed air in an underground aquifer that will be released and blended with natural gas fired combustion turbines to generate electricity. The wind turbines will also provide 1 MW of power directly to the grid, and will help fulfill a state goal of adding 1,000 MW of renewable energy per year to the electric grid by 2010. The \$200 million project, which will be online by 2006, is funded by Warren Buffett and various other Iowa municipal electric and gas utilities. The Iowa Public Power Agency will arrange project financing for utility investors. State authorities in Texas and Ohio have also discussed construction of a wind-powered stored energy system. (Source: *Reuters*, May 29, 2003)

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DENVER REGION

► *General State Activities*

New Mexico State Senator Richard Romero (D/Albuquerque) sponsored *Senate Joint Memorial 89: Renewable Energy and Energy Efficiency Goals*, which will require the state government to employ energy efficiency and renewable energy technologies. The bill, which was passed by the legislature, includes the following provisions:

- At least ten percent of New Mexico's electrical energy demands should be generated from renewable sources by the year 2010.
- The Public regulation commission is requested to encourage consumers to generate their own electricity from renewable sources and to sell that power back to their utility companies through net metering.
- The state government is requested to take all reasonable actions to "lead by example" with respect to incorporating renewable energy, energy efficiency, and alternative fuel technologies and practices into all aspects of its capital projects, procurement and operations, including utilizing performance contracting pursuant to the *Public Facility Energy Efficiency and Water Conservation Act* to effect energy efficiency conversions in state buildings.
- New Mexico's Secretary of Energy, Minerals and Natural Resources, in cooperation with other relevant state agencies, is requested to pursue all feasible measures to encourage the use of

alternative-fueled and gas-electric hybrid vehicles throughout the state, including the development of a statewide alternative fuel filling station infrastructure.

- New Mexico's Secretary of Economic Development is directed to evaluate the feasibility of establishing a "renewable energy economic development cluster" to complement in-state renewable energy production and to encourage the development of a renewable energy manufacturing industry to foster job and wealth creation in the state..

As a result of a study, a research firm determined that an energy efficiency goal equivalent in nature to the renewable energy goal stated above would result in a 36 percent reduction in the state's electricity demand by 2020, and would save consumers \$2.8 billion over the period between 2003-2020. (Source: legis.state.nm.us)

Commercial, residential, and industrial purchases of renewable energy applications of solar thermal electric, photovoltaics, landfill gas, wind, biomass, hydro, geothermal electric, and fuel cells will be eligible for a renewable energy sales tax exemption through the Wyoming Department of Revenue. Effective July 1, and expiring on June 30, 2008, Minnesota will require no tax on purchases of wind turbines, generating equipment, control and monitoring systems, power lines, substation equipment, lighting, fencing, pipes and other equipment for locating power lines and poles. For more information, contact Robert Tompkins of the Wyoming Department of Revenue at (307) 777-5293, or via email at rtompk@state.wy.us.

► *Status of Utility-Related Activities*

The Wyoming legislature is considering mandating a Renewable Portfolio Standard requiring utilities to incorporate a certain percentage of renewable fuels in their resource mix. The Joint Interim Committee on Minerals, Business, and Economic Development and Governor Dave Freudenthal (D) have been reviewing a plan set forth by the Wyoming Energy Commission that includes recommendations from the Powder River Basin Resource Council that the state mandate a 10 percent standard by 2010, and a 20 percent standard by 2020. Steve Waddington, the Governor's Energy Policy Advisor, believes that if a Federal mandate was established, Wyoming may become "renewable central" and could begin exporting a significant amount of wind, biomass, and other renewable energy resources to other states. Gillian Malone of the Powder River Basin Resource Council said, "The timing is optimal for this type of legislation. It just makes sense to get in on the ground level." Wyoming generates about 140 megawatts of electricity from wind energy, and, recently, legislation was passed that exempts sales tax on equipment used to construct renewable facilities. (Source: Casper Star Tribune, (Casper, Wyoming) May 22, 2003)

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PHILADELPHIA REGION

► *General State Activities*

Katie McGinty, Acting Secretary of the Pennsylvania Department of Environmental Protection announced that Pennsylvania plans to double its renewable electricity purchase from 5 percent to 10 percent of its energy use. The Commonwealth will also launch a \$5 million initiative called "Pennsylvania Energy Harvest" that is designed to help farmers install renewable energy technologies. Other new renewable energy projects in Pennsylvania include:

- Two new wind farm projects will be built this year – a 30 MW Meyersdale wind farm and a 64.5 MW Waymart wind farm. Two additional agreements are pending. FirstEnergy Solutions may purchase power produced from the Meyersdale Wind Project
- PennFuture installed a 3.84 kW solar photovoltaic project at its Harrisburg office.

(Source: www.dep.state.pa.us)

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SEATTLE REGION

► *General State Activities*

Arizona Governor Janet Napolitano signed *House Bill 2324: Energy Conservation Standard for State Buildings* on April 28, 2003. The law requires state agencies and universities to reduce energy use by 10 percent per unit of floor area by 2008, and 15 percent by 2011. The law also requires the purchase ENERGY STAR® or FEMP-designated energy efficient products and implement energy conservation methodologies. State agencies will work with Energy Service Companies to assist in financing energy savings projects. By 2011, energy savings in state buildings and universities will have grown to \$11 million per year. During the period between 2004-2015, over \$90 million in savings are expected to be incurred. (Source: www.azleg.state.az.us)

Local government officials in Simi Valley, California, have turned down an offer to join the Ventura County Regional Energy Alliance, citing a lack of concrete goals and the loss of local control if Federal, state, and other districts are invited to join. The alliance is tasked with finding solutions to energy efficiency and conservation in local businesses and residences. The alliance received a \$485,000 grant from the California Public Utilities Commission for planning purposes. The City of Thousand Oaks has joined the alliance, but Oxnard and Ventura are still considering membership. Initiatives proposed by the group include conversions for farmers' water pumping systems and other electrical conservation projects, as well as the establishment of a regional community energy authority. In the future, the alliance will consider solar as a regional energy alternative. (Source: *InsideVC.com*, May 20, 2003)

Hydrogen Fuel Cell Test Facility opens in Hawaii. On April 24, Hawaii opened a test facility to promote hydrogen fuel cell development and renewable technologies. Senator Daniel Inouye (D/HI) helped secure \$1.5 million in DOD appropriation funds for research collaboration under the Hawaii Energy and Environmental Technology Initiative. For more information contact Rick Rocheleau at 808-956-8366.

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UTILITIES AND SUPPLIER ACTIVITIES

ATLANTA REGION

No new information of interest to report.

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BOSTON REGION

No new information of interest to report.

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CHICAGO REGION

► *Restructuring Activities*

Great River Energy, a generation and transmission cooperative serving 28 distribution cooperatives in Minnesota and Wisconsin, will add 100 MW of wind energy to its generation mix by 2005. The company will consider the proposals of five wind farm developers and by mid-July, will announce the winning bids after further inquiry into each proposal's transmission, pricing, operations, and equipment. The proposals were submitted by TRIMONT Area Wind Farm, LLC, Continental Wind Energy, LLC, FPL Energy, LLC, enXco, Inc., and Navitas Energy. (Source: *Business Wire*, May 20, 2003)

► *Public Benefits*

Beginning July 1, commercial, industrial, residential, and government customers of Boone Electric Cooperative living in the State of Missouri have the option to join the Green Pricing Program to purchase power generated by wind and biomass. The renewable power can be purchased for \$3.00 per 100 kWh block on a one year contract commitment. For more information, contact Chris Rohlfing of Boone Electric Cooperative at (573) 449-4181 or visit www.booneelectric.com.

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DENVER REGION

► *Restructuring Activities*

Nevada Power and Sierra Pacific Power have contracted with the Eldorado Solar Electric Generating Station to receive power produced from a 50MW solar thermal electric facility in the State of Nevada, the third largest solar energy station in the country. The facility will go online by 2005 and energy will be sold for 15 to 17 cents per kWh over 20 years, to a total of 8,400 homes. Industry experts believe that 10 percent of the land area in Nevada could serve the energy needs of the entire U.S. population. Nevada Power has received approval for renewable energy plants that will provide employment for 480 to 650 people over the life of construction process. (Source: www.re-focus.net)

FPL Energy has announced plans to expand the wind capacity generated by the Oklahoma Wind Energy Center by 51 MW, bringing total capacity to 102 MW. Oklahoma Gas & Electric will purchase the wind power after plant construction is complete; commercial operation is scheduled by the end of 2003, pending the approval of the power purchase agreement by the Oklahoma Corporation Commission. The wind farm will include 68 1.5 MW turbines located in Northwest Oklahoma. Mike O'Sullivan of FPL Energy said, "We are pleased to be able to expand the first wind energy project in Oklahoma and add to our industry leading wind energy portfolio." (Source: *Business Wire*, June 11, 2003)

► *Public Benefits*

The Nevada Power Company and Invensys announced an energy management pilot program designed to conserve electricity in 1,000 homes in and around the City of Las Vegas. The GoodWatts program allows utilities to remotely control air-conditioning and other high energy use systems using a cable or DSL network. The program will be made available to 50 homeowners in Phase One of the program beginning this summer; two more phases will be implemented over the next two years. The utility will use real time data to reduce demand during peak periods, and homeowners will be able to monitor their energy use for savings on their electric bill. (Source: *M2 Communications*, June 3, 2003)

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PHILADELPHIA REGION

► *Restructuring Activities*

Reliant Energy Solutions has received a license from the Maryland Public Service Commission to provide electric service to commercial, institutional, and industrial customers. Jim Ajello, President of Reliant Energy Solutions said, "Our focus initially will be serving clients with a peak demand of 1.5 megawatts and monthly electric bills of \$50,000 or more in Baltimore. However, we plan to expand into the rest of Maryland in 2005 as market rules designed to encourage competition go into effect in the rest of the state." (Source: *PR Newswire*, May 21, 2003)

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SEATTLE REGION

► *Public Benefits*

The Chugach Electric Association is considering construction of a \$6.4 million wind power generation site south of Anchorage. Three turbines could potentially generate 4.5 MW of electricity, and the blades will spin slowly enough as to avoid harming birds. Project developers will complete an evaluation process in early July and apply for a permit from Chugach State Park to proceed with construction if the project is financially feasible. The turbines would be built on a 1,500 square foot site located near a road and a powerline to connect to the turbines to the local electric grid. Other wind power projects in Alaska include the Kotzebue Electric Association's wind turbines that generate up to 30 percent of the utility's electric needs. (Source: *Anchorage Daily News*, Alaska, June 5, 2003)

The Los Angeles Department of Water and Power (LADWP) has launched a \$150 million incentive program through June 2011, to subsidize the cost to residents and businesses for purchasing solar electric systems. The program was created in response to an increase in consumer demand for solar power in the Los Angeles utility's service territory. David Wiggs of LADWP said, "In the last year, requests to participate in LADWP's solar program increased dramatically. We will expand the annual budget for this program to \$20 million this fiscal year and \$16 million the following year to help meet the rise in demand. Subsequent years will be funded at the levels originally planned, ranging from \$8-16 million per year." Los Angeles Mayor Jim Hahn commended LADWP for "foster[ing] the creation of a solar industry in Los Angeles." Existing solar contracts will be fulfilled before new contract obligations begin. For more information on this and other renewable programs sponsored by LADWP, visit www.ladwp.com.

The Energy Trust of Oregon began accepting applications for its Solar Electric Buy-down Program in May. The program offers rebates of \$2.50/watt DC installed for residential applications and \$1.75/watt DC installed for commercial applications to Pacific Power and PGE customers who install new photovoltaic systems on their new or existing homes, commercial and community buildings, farms, and municipal facilities. Eligible systems must be 25 kW or smaller, net metered, and tied to the grid. The trust also offers a residential tax credit through the Oregon Office of Energy of \$3.00 per watt, up to \$1,500 and a business tax credit through the Oregon Office of Energy of approximately 35 percent of installed system costs applied over a period of five years. For more information on the program, contact Kacia Brockman at (866) 368-7878 Ext. 223 or visit www.energytrust.org.

To gain investment in renewable resources Hawaii, the Hawaiian Electric Company and subsidiary, Renewable Hawaii, Inc., released a request for proposal (RFP) for equity investment in commercially viable and cost effective projects for the island from sun, wind, biomass, ocean, geothermal, or wind energy. The company will contribute \$10 million to partner with other developers to set up renewable energy generation projects. Karl Stahlkopf, President of Renewable Hawaii explained, "We want to help the state of Hawaii increase the amount of electricity generated from renewable resources as quickly as possible." Initially, renewable projects will be established for the

Island of Oahu, and consecutive RFP's will be issued to encourage development on the Islands of Maui, Molokai, and Lanai later this year, followed by the Big Island of Hawaii afterward. Renewable Hawaii will place priority on projects that can provide firm power rather than "as-available" sources, and confirmation that a project can be integrated into the island's electric system without impacting service reliability. Projects must have a capacity of at least one megawatt and go online no later than December 31, 2008. To read more about the RFP, visit www.renewablehawaii.com. Proposals are due by August 22, 2003.

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MULTIPLE REGIONS

► *Restructuring Activities*

Sustainable Energy Technologies Ltd. will market to fuel cell power systems developers a new grid interactive power inverter for stationary fuel cells. The technology will result in a more efficient, less costly, and simpler method of converting power output of fuel cells into electricity. Michael Carten, President and CEO of Sustainable Energy Technologies said, "The remarkably simple design of Sustainable Energy's power inverter platform will enable developers of alternative energy systems to deliver the lower costs and higher reliability that are needed to make clean energy alternatives more economical." A study completed by Allied Business Intelligence revealed that the market for stationary fuel cells will increase to nearly 16,000 MW by 2012 from 45 MW in 2002. (Source: *CCN Matthews*, May 21, 2003)

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PRIVATE SECTOR

GENERAL ANNOUNCEMENTS

A patent issued to WorldWater Corporation will enable solar systems to switch automatically between solar and grid tied power and for switching between battery charging and water pumping functions. (Source: *Business Wire*, June 17, 2003)

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ATLANTA REGION

No news of interest to report.

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BOSTON REGION

The non-governmental organization, Woods Hole Research Center in Massachusetts, plans to add a wind turbine to its renewable energy collection. Currently, the center's main building is outfitted with 30,000 kW/year solar panels, which meet 30 percent of the building's energy needs. The group, with support and financing from the Massachusetts Renewable Energy Trust, is planning to install a 130-foot high wind turbine. The center anticipates that once the wind turbine is installed, more than 100,000 kW will be produced in a year. (Source: *Boston Herald*, June 16, 2003)

Shell Solar and Powerlight Corporation has installed a one MW solar system in Farmingdale, Long Island. The system consists of 13,464 solar panels covering nearly 2.4 acres on three buildings at Fala

Direct Marketing. The combined savings of the new solar system along with better insulation and lower roof-top maintenance costs, is approximately \$305,000 per year (Source: *EERE Network News*, June 3, 2003; Powerlight News Release, May 28, 2003)

The MATCH School Foundation in collaboration with the Massachusetts Technology Collaborative (MTC) has completed the first Massachusetts public school solar project at the Media and Technology Charter High School (MATCH School) in Allston. Students will track the 22 kW solar array and use the Internet to share their findings. The solar installation and increased energy efficiency measures are expected to result in a 33 percent savings. The Renewable Energy Trust, a fund administered by MTC and the Massachusetts Green Building Initiative, provided financial assistance. The overall system was designed by HMFH Architects, Inc, and solar panels were provided by Shell Solar. Solar Design Associates partnered with Powerlight Corporation and the International Brotherhood of Electrical Workers, Local 103 of Boston, also contributed to the project. (Source: Powerlight News Release, June 18, 2003)

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CHICAGO REGION

St. Paul Cogeneration LLC has opened a new combined heat and power plant that provides 25 MW/year into the Minnesota power grid. Cinergy Solutions designed and built the plant, which is predicted to burn 280,000 tons of wood waste each year. The heat will meet 80 percent of the energy needs of District Energy St. Paul Inc., a company that gives heating and cooling services to buildings in downtown St. Paul. (Source: *EERE Network News*, May 28, 2003)

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DENVER REGION

No new information of interest to report.

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PHILADELPHIA REGION

AdvanTek International LLC of Boothwyn, Delaware County, Pennsylvania, will employ an advanced wind turbine test center to increase utility-scale turbines by as much as 25 percent. AdvanTek's Power Control T (IPCT) technology is a new form of rotor blade and control system that captures more power at lower wind speeds, and so reduces the cost of wind energy. AdvanTek is working closely with the Pennsylvania Department of Environmental Protection to provide clean energy to the region. (Source: *Environmental News Service*, May 29, 2003)

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SEATTLE REGION

Chevron Energy Solutions, LP, installed a 500 kW solar photovoltaic facility in California's San Joaquin Valley. United Solar Systems Corporation has collaborated with ChevronTexaco to build Solarmine, a six acre facility. The amorphous silicon technology based panels are flexible and capable of withstanding impact. The 4,800 panels in the installation generate power to the local electric distribution system and to power ChevronTexaco's oil-well pumping units and processing plants at the Midway-Sunset oil field. (Source: *Clean Edge News*, June 13, 2003)

BP Solar installed 9,700 solar panels on the roofs of 11 stables at the Del Mar Fairgrounds in San Diego, California. The San Diego Regional Energy Office provided an incentive of almost \$2.3 million

for the project. The entire system will generate 1 MW and is expected to save the fairgrounds \$250,000. (Source: *EERE Network News*, June 4, 2003)

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ALTERNATIVE FUELS AND VEHICLES

GENERAL ANNOUNCEMENTS

► *New Products and Services*

The Environmental Protection Agency's Clean School Bus USA initiative is offering \$5 million for a clean school bus program. The program, designed to reduce pollution affecting children, will award up to 20 grants to help school districts nationwide upgrade their existing fleets either through retrofit with diesel reduction devices or by replacement with new, cleaner buses. More than 24 million children travel on approximately 444,000 school buses daily. The application for the grants is due August 1 and can be retrieved from www.epa.gov/cleanschoolbus. (Source: *Environmental News Service*, June 13, 2003; *Clean Cities*, June 2003)

DynaMotive Energy Systems will use fast pyrolysis to convert 100 tons per day of biomass into nearly 16,000 gallons of BioOil with the construction of a new plant. DynMotive will collaborate with Ramsay Machine Works and UMA Engineering. (Source: *EERE Network News*, May 28, 2003)

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ATLANTA REGION

► *New Products and Services*

The Kentucky Division of Energy provided grants to offset the \$0.20 per gallon incremental cost of biodiesel compared to diesel as part of a pilot project in 2002. Currently, 225 buses use B20 and 100 buses use B2 within the Kentucky school systems of Campbell, Kenton, Marshall and McLean. By the pilot project's completion in October 2003, approximately 45,000 gallons of diesel fuel will have been displaced. (Source: *Alternative Fuel News*, May 2003)

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BOSTON REGION

► *Infrastructure Activities*

L.L. Bean began testing biodiesel (B20) in three tractor trailers that transport goods between warehouses in City of Freeport, Maine. The three trucks use 1,000 gallons of fuel per month, which is received from Frontier Energy in South China, Maine. L.L. Bean plans to use propane-powered light-duty service trucks. L.L. Bean is in the process of becoming a Clean Cities stakeholder. (Source: *Alternative Fuel News*, May 2003)

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CHICAGO REGION

► *New Products and Services*

The Federal Transit Administration is sponsoring the Kansas City Area Transportation Authority to test a plug-in hybrid shuttle bus in about 14 to 16 months. The plug-in hybrid bus will run on batteries charged by the Kansas City Power & Light Co. power grid. Supplemental power will be provided by diesel. The bus is expected to have a 20-30 mile electric power only range, which will result in a 30 percent decrease in fuel consumption. (Source: *EV World*, June 10, 2003)

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DENVER REGION

No new information of interest to report.

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PHILADELPHIA REGION

► *AFV Fleet Acquisitions*

Meadowlink, a New Jersey ride broker that links transportation contractors, corporations, and low-income workers, is adding 20 Toyota and Honda hybrid-electric vehicles to its fleet. North Jersey Transportation Planning Authority announced a \$246,000 grant to Meadowlink to lease hybrid vehicles for carpool. (Source: *CALSTART News Notes*: June 5, 2003)

Over the next 18 months, Montgomery County, Maryland's, Ride On compressed natural gas bus fleet is expanding from 24 to 79, replacing 38 existing diesel buses. The county is building a \$4.4 million CNG filling station to be completed in December. The entire Ride On fleet consists of 337 vehicles. (Source: *EV World*, June 12, 2003)

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SEATTLE REGION

► *Infrastructure Activities*

Clean Energy, formerly ENRG, will supply liquefied natural gas (LNG) for Valley Metro, a transit service to 20 communities in the Phoenix Metropolitan Area. The Valley Metro partners, which includes the Cities of Phoenix and Tempe and the Regional Public Transportation Authority, use eight million gallons of LNG annually for nearly 540 LNG-fueled buses. The five-year agreement with five one-year extension options, is valued at approximately \$34 million. (Source: *CALSTART News Notes*, June 11, 2003)

► *New Products and Services*

A \$400 million liquefied natural gas terminal has been proposed at a Pier Echo in the port of Long Beach, California. Sound Energy Solutions is operating under a 40-year lease to create the combined receiving terminal and gasification facility on a 27 acre parcel at Pier T, Berth 226, that could hold a 68.3 million barrel capacity for distribution in Southern California. (Source: *CALSTART News Notes*, June 6, 2003)

Flexcar has closed business in South San Francisco Bay. Flexcar attributed the poor economy and low population density as its reason for terminating its car-share operations that opened in July, 2002. The

company will re-launch a Bay Area operation in San Francisco. (Source: *CALSTART News Notes*, June 10, 2003)

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INTERNATIONAL

► *New Products and Services*

Japanese are poised to take lead on hydrogen R&D. Hydrogen fuel cell development is a priority for the United States. However, American research efforts lack the corporate involvement compared to the Japanese. The Japanese R&D goal is to have 50,000 fuel cell-powered cars on the road by 2010, and 2.1 gigawatts of stationary fuel cell power for home and business use. The Japanese annual R&D budget is \$300 million for the next two years on fuel cells. The United States \$1.2 billion R&D proposal for the next five years would double from \$150 million in 2003 to \$273 million a year. (Source: *Greenwire*, June 2003)

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MEETINGS, CONFERENCES, AND TRAINING **WORKSHOPS**

- Refer to [Attachment C](#) – New Technologies
- Refer to [Attachment D](#) – Calendar of Upcoming Events.

MULTIPLE REGIONS

The Association of Energy Engineers offers online and distance-learning seminars. Upcoming July courses include Small-Scale Cogeneration, July 8; Commercial HVAC Fundamentals, July 14; Strategic Energy Planning, also on July 14; Optimizing HVAC Performance, July 18; Chilled Water Systems, July 18; and Next Generation DDC Open Systems, starting July 28. Upcoming August seminars include Optimizing Boiler Efficiency and Performance Contracting 2003, on August 11. September seminars include Air Distribution Systems, starting September 12. For more information, go to www.aeecenter.org/training or www.aeecenter.org/realtime.

The North American Board of Certified Energy Practitioners (NABCEP) will offer the Solar PV Installer Certification exam on October 25, 2003, at various testing sites around the country. NABCEP will announce testing locations later this summer. The certification is a voluntary process upon meeting certain eligibility requirements and successfully passing the written exam. The program is designed to enhance public perception of solar photovoltaic installations, enable the public to judge competency of solar photovoltaic installers, and improve the quality of installations. Applications to take the exam are due by July 31, 2003. Download the application at www.nabcep.org.

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ATLANTA REGION

Southface Energy Institute presents the “Sustainable Atlanta Roundtable” meeting July 11 in Atlanta, Georgia. Participants will discuss local sustainable design projects. For more information and to register, see www.southface.org/home/sart/sustainatlanta.html.

The Energy, Environment and Resources Center at the University of Tennessee is offering “Toward a Sustainable Future: A Course for College and University Educators” on July 27-31, 2003, in Knoxville, Tennessee. The course will teach concepts of education for sustainable development. For more information, go to eerc.ra.utk.edu/what-new/slowressustain.pdf.

Oak Ridge National Laboratory presents the “Hybrid Solar Lighting Summit: Bringing Sunlight Inside” on October 7-8 in Knoxville, Tennessee. The meeting will address the viability of hybrid solar lighting technology in commercial buildings. For more information, please visit www.ornl.gov/hybridlighting/Agenda.htm.

Green Power Magazine presents “Green Power 2003,” on November 12-13 in Ft. Lauderdale, Florida. The conference will focus on energy sources such as photovoltaic, wind, hydro, biomass, microturbine, cogeneration, hydrogen, and geothermal energy. For more information, go to www.greenpowermagazine.com/gp_conf_index.htm.

The Department of Energy is co-sponsoring “Fundamentals of Energy Management” on December 3-4 in Miami, Florida. This refresher course assists participants in preparing for the Certified Energy Manager’s examination. For more information, please visit www.aeecenter.org.

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BOSTON REGION

The Pace University Energy Project presents the “ReCharge Energy Expo” on September 12-13 in Bear Mountain State Park, New York. Conference participants will learn about energy efficiency and renewable energy products and innovations. For more information, please visit www.rechargeexpo.org.

Energy Star® presents the “2003 Business and Energy Conference: Realizing Value and Reducing Vulnerability” on October 21-23, in New York, New York. Topics including energy management and energy security will be addressed. For more information and to register, go to www.conference-board.org/conferences/conference.cfm?id=539.

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CHICAGO REGION

The CREED Project presents courses, including “Energy Basics” on July 21-24, and “Solar Photosynthetic” (Biomass for Heating Electrical Generation and the Production of Transportation Fuels) on August 18-21 in St. Paul, Minnesota. For more information, visit www.mnsta.org/CREED.pdf. To register, contact Renee Wonser at rwonser@gw.hamline.edu

Holophane presents an “Industrial Lighting Seminar” on August 11-13 in Newark, Ohio. The session will provide an overview of the latest industrial lighting technology, organized according to lighting application. For more information, please visit www.holophane.com. To register, contact Katie Barber at (740) 349-4258.

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DENVER REGION

Energy Seminars is presenting “Electricity 101” on September 24-25 in Houston, Texas. The course will cover how electricity is produced, how the industry is changing, the dynamics of competition, and FERC’s new policies, among other issues. The course is also offered online. For more details and to register, visit www.energyseminars.com.

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PHILADELPHIA REGION

The American Council for Renewable Energy announces “Renewable Energy in America: Building a National Strategy on State & Local Successes” on July 8-9 in Washington, DC. For more information, visit www.americanrenewables.org/conference2003.html

The Office of Energy Efficiency and Renewable Energy announces a meeting of the “Biomass Research and Development Technical Advisory Committee” on July 17 in Arlington, VA. The purpose of the meeting is to provide advice and guidance to promote research and development leading to the production of biobased industrial products. For more information on the meeting, contact John Ferrell at 202-586-7766.

The Department of Energy is co-sponsoring “Fundamentals of Energy Management” on August 14-15 in Atlantic City, New Jersey. This refresher course assists participants in preparing for the Certified Energy Manager’s examination. For more information, please visit www.aeecenter.org.

Intertech Corporation presents the” 2003 Hydrogen Production and Storage Forum: Assessing the ‘Here-and-Now’ Technical, Strategic and Commercial Opportunities for Generating and Storing Hydrogen Fuel” on December 3-5 in Washington, D.C. More information is available at www.intertechusa.com/Division_Energy/Hydrogen/12_03_Hydrogen_introduction.html.

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SEATTLE REGION

The Office of Energy Efficiency and Renewable Energy announces a meeting of the “State Energy Advisory Board” on July 10-11 in Berkley, California. The board which reports to the Assistant Secretary for Energy Efficiency and Renewable Energy (EERE) plans to address EERE Programmatic Update, the Lawrence Berkeley National Laboratory Program and tour, and a Regional Office update. For more information, contact William Raup at 202-586-2214.

The Northwest Energy Education Institute presents the “Energy Management Certification Program” on July 28-August 8 in Eugene, Oregon. The course will provide participants with a working knowledge of energy efficiency in commercial buildings. For more information, please see nweei.org/emc.html.

The Department of Energy is sponsoring the “International Energy Program Evaluation Conference” on August 20-22 in Seattle, Washington. The meeting will feature a series of workshops, panels, and speakers. For more information, visit www.iepec.org/IEPEC_main.htm.

The Association of Energy Engineers presents “The Theory & Practice of Distributed Generation & Onsite CHP” on September 15-17 in San Diego, California. The training program prepares attendees for the Distributed Generation Certified Professional examination. For more information, visit www.aeecenter.org/seminars/calendar.htm.

The American Center for Life Cycle Assessment, the United Nations Environment Programme, and the City of Seattle are sponsoring “InLCA/LCM 2003” on September 23-25 in Seattle, Washington. Conference topics include Life Cycle Assessment and Life Cycle Management methodologies and their applications. For more information and to register, please visit www.lcacenter.org/InLCA-LCM03/index.html.

The American Institute of Architects is co-sponsoring “Lightshow West 2003” on September 24-25 in San Francisco, California. This large conference features exhibitions of new products and emerging technologies as well as speakers and other special events. For more information, go to www.lightshowwest.com.

The Department of Energy is co-sponsoring “Fundamentals of Energy Management” on October 2-3 in Las Vegas, Nevada. This refresher course assists participants in preparing for the Certified Energy Manager’s examination. For more information, please visit www.aeecenter.org.

The City of Scottsdale and the City of Phoenix are co-sponsoring the sixth annual “Green Building Expo” on October 3-4 in Phoenix, Arizona. October 3rd features events designed for building professionals, while October 4th is tailored for the general public. For more information, please visit www.scottsdaleaz.gov/greenbuilding/Enrollment/2003GBEXPONR.pdf.

Solar Electric Power Association is presenting and Salt River Project is hosting “UPEX 2003: The Solar Power Experience Conference and Exhibition” on October 7-10 in Scottsdale, Arizona. Topics will include sustainable design, business partnership models, energy security, student programs and renewable mandates. For more information and to register visit www.solarelectricpower.org/upex/default.cfm.

Energy Systems Laboratory presents the “International Conference for Enhanced Building Operations” on October 13-15 in Berkeley, California. The conference will focus on topics such as existing building commissioning, measurement and verification, electricity deregulation, and environmental benefits of energy conservation. For more information, visit www-esl.tamu.edu/icebo.

Rubicon Technology is sponsoring “Light Emitting Diodes 2003: The Strategic Summit for LEDs in Illumination” on October 15-17 in San Diego, California. For more information, see www.intertechusa.com/Division_Electronics/10-03_LEDs/2a_introduction.html.

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STUDIES, REPORTS, AND ANALYSES

SOLAR AND RENEWABLE ENERGY

The Spatial and Temporal Distributions of U.S. Winds and Windpower at 80 m Derived from Measurements, Christina Archer and Mark Jacobson, Journal of Geophysical Research – Atmospheres, May, 2003

This study was the first to measure wind speeds of new and taller wind turbines. The 1,327 wind stations and 87 soundings examined contained new turbines positioned at 262 feet above ground, which is almost 100 feet taller than older turbines. The findings reveal that one fourth of the United States has enough wind powerful to generate electricity for the same price as natural gas or coal-fired plants. An assessment of potential wind areas found that North Carolina, Louisiana, and Texas have fast winds at coastal and offshore sites, with 37 percent of the U.S. shoreline and offshore locations containing strong winds suitable for windpower generation. Within the continental U.S., the Plains states of Oklahoma, South Dakota, North Dakota, and Nebraska had the most powerful winds. To view the report, visit fluid.stanford.edu/~lozej/winds/winds.html.

The Changing Face of Renewable Energy, Navigant Consulting, June 19, 2003

The study surveyed a group of United States and Canadian energy and utility companies and determined that the cost of electricity from wind and photovoltaics is 10 percent of the cost of wind power from 20 years earlier. The use of renewable energy technologies will grow four times faster than conventional fossil fuels and large dams in the next decade, with wind and biomass comprising some 85 percent of that new capacity. To view the report, visit www.navigantconsulting.com.

Potential Wind Farm Sites Study, May 2003

Hawaii wind resource maps identify future wind farms, wind conditions, and wind data that will facilitate the evaluation of offshore wind development. The maps are available online at windmaps.heco.com. For more information contact Karl Stahlkopf at 808-543-7656.

Analysis of a 10-Percent Renewable Portfolio Standard, Energy Information Administration, May 2003

This service report, requested by Senator Jeff Bingaman (D/NM), Ranking Minority Member of the Senate Committee on Energy and Natural Resources, addresses the analysis of a nationwide Renewable Portfolio Standard (RPS) program that is proposed as an amendment to pending energy legislation (*S. 14*). The requirement of a 10 percent increase in renewable energy by 2020, would encourage power generators to derive energy from wind and biomass, thus reducing demand for natural gas. Retail electricity prices are projected to rise less than one percent, or 0.1 cent/kWh to 6.8 cent/kWh. The RPS would lower wellhead gas prices by about 1.5 percent by 2025. The report is available at www.eia.doe.gov.

Hydrogen Fuel Cells Study, Tracey Tromp et al., California Institute of Technology, June 2003

The report, published in the journal, *Science*, argues that the release of hydrogen into the atmosphere might cause negative environmental effects, increasing the size and longevity of ozone holes, among them.

Renewables Information 2002, International Energy Agency, 2002

The publication details the development and use of renewable energy sources among countries in the Organization for Economic Cooperation and Development. The full report can be downloaded free of charge at www.iea.org/stats/files/ren2002.pdf.

Fuel Cell Yearbook 2002, Energy Info Source, 2003

The publication provides an overview of key activities within the fuel cell industry during the 2002 calendar year, denotes major players in the fuel cell industry, chronicles the development of different technologies, highlights major financial transactions, and details government activities supporting fuel cells and fuel cell infrastructure. The report covers micro, stationary power, and transportation fuel cells, and information on over 80 fuel cell companies and 10 automobile companies. To purchase the publication, visit www.energypromotion.net.

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ALTERNATIVE FUELS AND VEHICLES

Light-Duty Automotive Technology and Fuel Economy Trends: 1975 through 2003, Environmental Protection Agency, May 2003

The report summarizes fuel economy and technology use trends, finding a declining trend in new light vehicle fuel economy since 1988. Access the report at www.epa.gov/otaq/fetrends.htm.

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ENERGY AND WATER CONSERVATION

Fan Sourcebook Helps Improve System Performance, Office of Industrial Technology, May 2003

The new publication by DOE's Industrial Technologies Program and Air Movement and Control Association provides information on improving industrial plant system performance. The reference is available at Industrial Technologies Clearinghouse at 800-862-2086 or www.oit.doe.gov/cfm/fullarticle.cfm/id=749.

Cool Appliances: Policy Strategies for Energy Efficient Homes, International Energy Agency, April 2003

This book explores the energy-saving and carbon-reducing consequences of increasing the efficiency of household appliances.

Energy Efficiency Program Planning Workbook, National Association of Energy Service Companies, December 2002

The report, which examines resource acquisition and market transformation program models, is available online at www.naseo.org/about/Energy_Efficiency.pdf.

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MISCELLANEOUS

Report On Technical Interconnection Standards for Distributed Generation in Minnesota, Minnesota Department of Commerce (DOC), May 2003

The DOC convened a group of stakeholders in February to develop uniform guidelines for distributed generation. Their findings are incorporated in a report that includes: Proposed Interconnection Process for Distributed Generation, Distributed Generation Interconnection Requirements, Generation Interconnection Application, Engineering Data Submittal, and Proposed Interconnection Agreement for Extended Parallel Distributed Generation Systems with Electric Utilities. The DOC is seeking comments on the documents; comments should be sent to Stuart Mitchell at stuart.mitchell@state.mn.us by June 27, 2003.

Advanced Building Guidelines, Construction Specifier Magazine, June 2003

The article describes a report, which provides owners and builders information on proven practices in developing high-performance buildings. The *Guidelines* can be found on the New Buildings Institute website at www.newbuildings.org/ABG.htm or contact Cathy Higgins at the New Buildings Institute Inc., at 509-493-4468.

Challenge and Opportunity: Charting a New Energy Future, Energy Future Coalition, June 2003

The report, authored by a bi-partisan coalition, provides recommendations on United States energy policy. View the full report at www.energyfuturecoalition.com/full_report/index.shtm.

Indoor Air Quality for Schools, National Energy Management Institute

This CD-ROM includes statistics, common causes of poor IAQ, cost cutting options, IAQ calculators, and testimonials.

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ATTACHMENT A

STATUS OF FY 2004 APPROPRIATIONS BILLS

(In Billions)

HOUSE

SENATE

<i>Jurisdiction/ FY 2004 Budget Request</i>	<i>302(b) Allocations / Approved Funding Level</i>	<i>Bill No.</i>	<i>Full Cmte.</i>	<i>Floor</i>	<i>Conf.</i>	<i>302(b) Allocations / Approved Funding Level (New)</i>	<i>Bill No.</i>	<i>Full Cmte.</i>	<i>Floor</i>	<i>Conf.</i>
Agriculture 17,141	17,005					17,005				
Commerce 37,685	37,914					37,014				
Defense 371,698	368,662					368,662				
Energy and Water Development 26,946	27,080					27,313				
Homeland Security 27,481	28,521	<i>H.R. 2555</i>	<i>6/12</i>			28,521				
Interior 19,552	19,627		<i>6/25</i>			19,627				
Labor / HHS 137,990	138,046					137,601		<i>6/26</i>		
Military Construction 9,237	9,196	<i>H.R. 2559</i>	<i>6/17</i>			9,196		<i>6/26</i>		
Transportation and Treasury 27,802	27,502					27,502				
VA/HUD 89,434	90,034					90,034				

Red Italics = scheduled date

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ATTACHMENT B

NEW LEGISLATION OF INTEREST TO FEMP

HOUSE

Number	Short title	Date	Sponsor	Status
H.R. 2555	<i>FY 2004 Appropriations for Homeland Security</i>	6/23/03	Harold Rogers (R/KY)	Received in Senate, referred to Appropriations Committee
	Key Provisions:	<ul style="list-style-type: none"> • United States Coast Guard –Unspecified funding level for acquisitions, construction, renovation, and improvement of aids to navigation, shore facilities, vessels, and aircraft, including equipment. • United States Secret Service - \$3.579 million for construction, repair, alteration, and improvement of facilities. • Sec. 519 None of the funds appropriated in this <i>Act</i> may be used for expenses of any construction, repair, alteration, and acquisition project for which a prospectus, if required by the Public <i>Buildings Act of 1959</i>, has not been approved, except that necessary funds may be expended for each project for required expenses for the development of a proposed prospectus. 		

SENATE

No new information to report.

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ATTACHMENT C – NEW TECHNOLOGIES

For informational purposes only. Listing does not imply endorsement.

Technology	Manufacturer	Manufacturers Claim	Contact
HVAC			
Swifter® Axial Props	Glocon Inc.	High-performance; high-efficiency	www.swifter-fans.net
Xtreme™ Commercial Gas Water Heater	Rheem Water Heaters	80 percent thermal efficiency	www.rheem.com
QuietComfort™ Plus Air Conditioner	Heil, International Comfort Products	12-SEER or 14-SEER units available	www.heil-hvac.com
Beacon II's Smart Defrost and Smart Controller	Heatcraft Refrigeration Products LLC	Saves energy by not powering heaters during unnecessary defrosts and not lowering room temperature after defrosting; extended compressor life	www.heatcrafttrpd.com
Tandem Scroll Compressor	Copeland	Improves overall system efficiency	www.copeland-corp.com
OptiSpeed Variable-speed Drive	York	Reduces chiller energy use up to 30 percent; enhances equipment life	www.york.com
16 inch Cool Compression™ Compressor	Vilter Manufacturing Corporation	Uses direct contact heat transfer to cool compressor oil in the oil separator, increasing efficiency and eliminating need for an oil cooler	www.vilter.com
LIGHTING			
Staklite 500™ Fixture	Litecontrol	Provides high-efficiency, direct distribution of light	www.litecontrol.com/lc/index.php
Eco-10 IR Ballast	Lutron	Allows personal control of overhead lighting through the use of a handheld IR transmitter, improving employee productivity	www.lutron.com/lutron
Border Tube Lighting System	Gelcore	Energy savings up to 85 percent over standard neon	www.gelcore.com
Model BF2440 Lamp	JKL Components Corporation	Consumes less than one watt; 20,000 hours lamp life	www.jkllamps.com
Quartet™ Linear Lighting System	Ledalite Architectural Products	Energy efficient	www.ledalite.com

Technology	Manufacturer	Manufacturers Claim	Contact
125W Uni-Form Pulse Start Lamp	Venture Lighting International	Compared to traditional 175W pulse start metal halide lamp, offers more mean lumens over lifetime and provides 50 percent longer life (15,000 hours)	www.venturelighting.com
Right-Angle 3mm PCB LED	LEDtronics®	Average life span of 100,000+ hours; requires 80-90 percent less operating power than equivalent incandescents	www.ledtronics.com
DimMax CFL Lamp	Maxlite	Lamp life 10,000 hours; ENERGY STAR® approved	www.maxlite.com
Endura Bright LED-Based MR-16 Lamp	Opto Technology	Provides long life and energy savings	www.optotech.com
Marcato Fluorescent Luminaire	Day-Brite Lighting	Energy-saving electronic ballast standard	www.daybritelighting.com
Mico-Brite™ Miniature CFL Lamp	Litetronics™	Long life; energy savings of 90 percent; dimmable	www.litetronics.com
Class A Direct/Indirect Luminaire	Corelite	Outfitted with energy efficient lamp	www.cooperlighting.com
LightWing™ Fluorescent High Bay Luminaire	Day-Brite Lighting	Specular aluminum reflectors provide maximum lighting efficiency	www.daybritelighting.com
QBX: 6" Lite Box® 18W and 26W Compact Fluorescent Downlight	Prescolite	Uses energy efficient 26W quad tube compact fluorescent lamp	www.prescolite.com
Fusion™ LED Light Strip	Lucifer Lighting	50,000 hour rated life (continuous 7-8 years)	www.luciferlighting.com
ENERGY MANAGEMENT TOOLS			
In-Site Plus Monitoring and Management System	Piller Inc.	Provides comprehensive, real-time assessment of essential equipment and operations	www.piller.com/us
Powerlogic Power Meter 800	Square D/Schneider Electric	Automatically forecasts power use; provides real-time trend plots, averages, and demand metering	www.squared.com
PRO-MON Load-profiling Meter	E-MON	Net metering option allows users to determine amount of energy delivered by the power source (or utility) and amount of excess power returning to the electrical grid	www.emon.com
i-VAV Version 1.3 Software	Teletrol Systems	Lowens energy costs; includes demand limiting, which automatically disables all types of reheat	www.teletrol.com/pub

Technology	Manufacturer	Manufacturers Claim	Contact
Continuum® Native BACnet Controller	Andover Controls	Interoperates with other BACnet devices without gateways	www.andovercontrols.com
NETA-01 Ethernet Module	ABB Inc.	Enables remote monitoring, configuration, diagnostics, and control	www.abb.com/us
Performance Monitoring and Optimization System Chiller Software	Hudson Technologies	Measures, modifies, and improves efficiency of industrial and commercial chillers and refrigeration systems	www.hudsontech.com
Targeted Residential Energy Analysis Tools 2.5	Performance Systems Development	Models building energy consumption; directs clients to cost-effective efficiency upgrades in single-family and multi-family buildings	www.treatsoftware.com
System 1010E Clamp-on Thermal Energy Flowmeter	Controlotron Corp.	Used for volumetric flow rates and thermal energy applications including custody transfer of thermal energy and optimization of chiller, boiler, and heat exchanger performance	www.controlotron.com
MISCELLANEOUS			
SG Series 5kV UPS Plus	Falcon	Includes high-efficiency true regenerative on-line design	www.falconups.com
Imager Image Projector	Martin Architectural	Exceptional optical design maximizes efficiency	www.martin-architectural.com

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ATTACHMENT D

MEETINGS, CONFERENCES, AND OTHER EVENTS

NOTE: New events are highlighted in **blue**.
DOE-sponsored events are highlighted in **red**.

GENERAL ANNOUNCEMENTS

DATE	EVENT	SPONSOR
July 8, 2003	Small-Scale Cogeneration Teleconference	Association of Energy Engineers
July 14, 2003	Strategic Energy Planning	Association of Energy Engineers
July 14, 2003	Commercial HVAC Fundamentals	Association of Energy Engineers
July 28, 2003	Next Generation DDC Open Systems Teleconference	Association of Energy Engineers
August 11, 2003	Performance Contracting 2003	Association of Energy Engineers
September 12, 2003	Air Distribution Systems	Association of Energy Engineers
October 25, 2003	Solar PV Installer Certification exam	North American Board of Certified Energy Practitioners

ATLANTA REGION

DATE	EVENT	SPONSOR
July 11, 2003	Sustainable Atlanta Roundtable Atlanta, GA	Southface Energy Institute
July 17-19, 2003	2003 Bell Conference: Ecosystems and Enterprise: Perspectives on Education for Sustainable Business Fort Lauderdale, FL	World Resources Institute
July 27-31, 2003	Toward a Sustainable Future: A Course for College and University Educators Knoxville, TN	The Energy, Environment and Resources Center
August 8-12, 2005	Solar World Congress 2005 Orlando, FL	International Solar Energy Society
August 17-20, 2003	Energy 2003 Orlando, FL	Federal Energy Management Program
October 7-8, 2003	Hybrid Solar Lighting Summit: Bringing Sunlight Inside Knoxville, TN	Oak Ridge National Laboratory

DATE	EVENT	SPONSOR
November 12-13, 2003	Green Power 2003 Ft. Lauderdale, FL	Green Power Magazine
November 12-13, 2003	World Energy Engineering Congress (WEEC) Atlanta, GA	Association of Energy Engineers
November 12-14, 2003	High Performance Facilities Expo 2003 Atlanta, GA	Association of Energy Engineers
December 3-4, 2003	Fundamentals of Energy Management Miami, FL	Department of Energy

BOSTON REGION

DATE	EVENT	SPONSOR
July 29-31, 2003	Waterpower XIII Buffalo, NY	HCI Publications
July 29-August 1, 2003	2003 ACEEE Summer Study on Energy Efficiency in Industry: Sustainability and Industry – Increasing Energy Efficiency and Reducing Emissions Rye Brook, NY	American Council for an Energy Efficient Economy
September 12-13, 2003	ReCharge Energy Expo Bear Mountain State Park, NY	Pace University Energy Project
October 14-15, 2003	3 rd Annual Empire Energy and Environmental Exposition (E4) Albany, NY	Environmental Business Association of New York State, Inc.
October 21-23, 2003	2003 Business and Energy Conference: Realizing Value and Reducing Vulnerability New York, NY	ENERGY STAR®

CHICAGO REGION

DATE	EVENT	SPONSOR
July 12-16, 2003	Energy Conference for Educators Chicago, IL	National Energy Education Development Project
July 21-24, 2003	Energy Basics St. Paul, MN	CREED Project
July 21-25, 2003	Fundamentals of Energy Auditing Madison, WI	University of Wisconsin's College of Engineering
August 9-10, 2003	Illinois Renewable Energy Fair Oregon, IL	Illinois Renewable Energy Association

DATE	EVENT	SPONSOR
August 11-13, 2003	Industrial Lighting Seminar Newark, OH	Holophane
August 18-21, 2003	Solar Photosynthetic (Biomass for Heating Electrical Generation and the Production of Transportation Fuels) St. Paul, MN	CREED Project
September 18-20, 2003	Greening of the Campus V: Connecting to Place Muncie, IN	Ball State University
October 15-18, 2003	2003 Excellence in Building Conference & Exposition Chicago, IL	Energy and Environmental Building Association
October 28-30, 2003	How to Meet Federal Energy Goals -- Midwest Workshop St. Louis, MO	FEMP

DENVER REGION

DATE	EVENT	SPONSOR
July 19-23 and 26-30, 2003	Energy Conference for Educators July 19-23 in Galveston, TX July 26-30 in Denver, CO	National Energy Education Development Project
July 27-30, 2003	Summer Committee Meetings Denver, CO	National Association of Regulatory and Utility Commissioners
September 13-14, 2003	4th Annual Rocky Mountain Sustainable Living Fair Fort Collins, CO	Rocky Mountain Sustainable Living Association
September 17-20, 2003	Architectural Engineering 2003: Building Integration Solutions Austin, TX	Architectural Engineering Institute
September 24-25, 2003	Electricity 101 Houston, TX	Energy Seminars
September 26-28, 2003	Renewable Energy Roundup and Green Living Fair Fredericksburg, TX	<u>Texas Renewable Energy Industries Association</u> and <u>Texas Solar Energy Society</u>
September 28-29, 2003	Solar Fiesta: Building the Energy Pathways Albuquerque, NM	New Mexico Solar Energy Association
September 29-October 1, 2003	Building for Greener Communities National Conference Nebraska City, NE	Firewise Communities
October 19-21, 2003	World Workplace and Facilities America Conference Dallas, TX	International Facility Management Association

DATE	EVENT	SPONSOR
October 21-23, 2003	Laboratories for the 21st Century 2003 Annual Conference Denver, CO	Department of Energy
December 11-12, 2003	Business Energy Solutions Expo 2003 New Orleans, LA	Association of American Engineers

PHILADELPHIA REGION

Date	Event	Sponsor
July 8-9, 2003	Renewable Energy in America: Building a National Strategy on State & Local Successes Washington, DC	American Council for Renewable Energy
July 17, 2003	Biomass Research and Development Technical Advisory Committee Arlington, VA	Office of Energy Efficiency and Renewable Energy
August 14-15, 2003	Fundamentals of Energy Management Atlantic City, NJ	Department of Energy
October 12-14, 2003	2003 AIVC BETEC Conference: Ventilation, Humidity Control and Energy Washington, DC	Building Environment and Thermal Envelope Council
November 12 - November 14, 2003	2003 USGBC International Green Building Conference & Expo Pittsburgh, PA	U.S. Green Building Council
December 3-5, 2003	2003 Hydrogen Production and Storage Forum: Assessing the "Here-and-Now" Technical, Strategic and Commercial Opportunities for Generating and Storing Hydrogen Fuel Washington, DC	Intertech Corporation

SEATTLE REGION

DATE	EVENT	SPONSOR
July 25-27, 2003	Life Cycle Assessment for Building Designers Dexter, OR	Lost Valley Educational Center
July 28-August 8, 2003	Energy Management Certification Program Eugene, OR	Northwest Energy Education Institute
August 8-10, 2003	Southwest Renewable Energy Fair Flagstaff, AZ	Greater Flagstaff Economic Council

DATE	EVENT	SPONSOR
August 20-22, 2003	International Energy Program Evaluation Conference Seattle, WA	Department of Energy
August 23-24, 2003	SolFest 2003 Hopland, CA	Solar Living Institute
September 15-17, 2003	The Theory & Practice of Distributed Generation & Onsite CHP San Diego, CA	Association of Energy Engineers
September 17-18, 2003	21 st West Coast Energy Management Congress, San Diego, CA	Association of Energy Engineers
September 19-21, 2003	Northwest Renewable Energy Festival Walla Walla, WA	Whitman College
September 23-25, 2003	InLCA/LCM 2003 Seattle, WA	American Center for Life Cycle Assessment, The United Nations Environment Programme, and the City of Seattle
September 24-25, 2003	Lightshow West 2003 San Francisco, CA	American Institute of Architects, and others
October 1-3, 2003	Sustainable Energy Expo and Conference Los Angeles, CA	IIR Exhibitions
October 2-3, 2003	Fundamentals of Energy Management Las Vegas, NV	Department of Energy
October 3-4, 2003	Green Building Expo Phoenix, AZ	City of Scottsdale and the City of Phoenix
October 5-6, 2003	Olympic Energy Expo Port Angeles, WA	Alternative Technologies Seminars
October 7-10, 2003	UPEX 2003: The Solar Power Experience Conference and Exhibition Scottsdale, AZ	Solar Electric Power Association and Salt River Project
October 12-15, 2003	GIN2003: Innovating for Sustainability San Francisco, CA	Greening of Industry Network
October 13-15, 2003	International Conference for Enhanced Building Operations Berkeley, CA	Energy Systems Laboratory
October 15-17, 2003	Light Emitting Diodes 2003: The Strategic Summit for LEDs in Illumination San Diego, CA	Rubicon Technology

DATE	EVENT	SPONSOR
November 11-14, 2003	2003 Business for Social Responsibility Annual Conference: Building and Sustaining Solutions Los Angeles, CA	Business for Social Responsibility
December 9-11, 2003	Industrial Water Conference 2003 Las Vegas, NV	Industrial Water World

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